1998 I-DEAS Users Conference Trip Report

FEMCI - May 5, 1998

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ICCON - I-DEAS Customer Cooperative Network

Purpose

- **Provide interface for I-DEAS users to SDRC**
- **Promote interaction between I-DEAS users**

Special Interest Groups (SIGS)

- **Design/Drafting**
- **Simulation**
- **Integration/Data Management**
- **Manufacturing**
- **University Programs**

ICCON Conference

- **Main Sessions**
- **SIG Sessions**
- **Tutorials**

Main Sessions

Sales Pitch:

1994:	**< 200 total developers**	**~50 FEA developers**
Now:	**> 500 total developers**	**~50 FEA developers**
1999:		**triple FEA staff**

- **‘‘Design News’’ named I-DEAS VGX best new technology of 1997**
- **45% increase in R&D spending in 1997**
- **Quality assurance (Promise: MS1 never again)**

Other Emphasis:

- **Paperless/2Dless critical path**
- **Simulation driven design**
- **Micro-level vs. macro-level productivity**
- **Integration with the WWW (VRML)**
- **New training centers (Dallas, Chicago, Detroit, Santa Clara, Minniapolis)**
- **MS 6.0 Update Training CD (See Drew Jones)**

Master Series 6 New Features (Simulation)

- **Section meshing**
  1. **Feature suppression**
  2. **Automatic anchor points**
  3. **Gap tolerance**
- **Mesh preview**
- **Post visualizer**
- **Allow triangles**
- **Full NASTRAN PSHELL support**
- **Fixed PCOMP translation bugs**
- **No more node/element relabeling**
- **Various Bug Fixes**
- **Part UNDO**
- **Design - VGX**

Future Plans (Simulation)

- **Triple efforts on Pre/Post**
- **Improve translation: solver addresses 80% of need at 20% of cost**
- **Imbed WIF in Supertab**
- **Native NT by the end of 1999**
- **3rd party software may lag**
- **Heterogeneous data sharing by end of 1999**
- **MS7 release in Jan. 99**
- **MS8 release in Dec. 99 - is a big release (CAE enhancements)**
- **$170 student PC version by fall 1998**

SIG Sessions

Escalated Requests:

Item	Request	Response
1.	Axisymmetric	Improved GBC and edge dependency. No plan for x-z limitation or mixed elements.
2.	Grouping	Improvements scheduled.
3.	Midsurface	Improvements scheduled.

Top 10 Requests:

Item	Request	Response
1.	Post-Processing - long list	Visualizer in MS6 - Major enhancements scheduled.
2.	User Interface - long list	Better consistency in MS6 - Major enhancements scheduled.
3.	Meshing	Section meshing in MS6.
4.	Elements	Improvements scheduled.
5.	External Solvers	Half completed in MS6.
6.	Coordinate Systems/DOF's	Improvements completed in MS6.
7.	Boundary Conditions	Improvements completed, data-surface and UI scheduled.
8.	File Management	Some issues addressed in MS6.
9.	Lost Functionality	Improvements scheduled.
10.	Results Locked	Minor improvements, not a high priority.

Tutorials Attended

- **Dynamics and Durability**
- **Enhanced Section Meshing**
- **Assembly Modeling Update**
- **Programming**
- **MS5 - Simulation Tech Tips**
- **Optimization and Sensitivity**
- **Modeling Techniques**
- **General FE Issues**
- **Advanced Modeling Techniques**
- **SDRC Elements**

Personal Contact/Meetings

Name	Company	Topic	E-mail
Louis Donato	Maya Heat Transfer	NASTRAN data translation	lois.donato@mayahtt.com
Mark Lawry	SDRC	I-DEAS Student User's Guide	mark.lawry@sdrc.com
Cynthia Sullivan	SDRC	I-DEAS Simulation	cindy.sullivan@sdrc.com
Doyle Hampton	SDRC	General hands-on help	doyle.hampton@sdrc.com
Dr. Thomas Dame	SDRC	Finite element formulations	tom.dame@sdrc.com
Patricia Goodman	SDRC	High school programs	patricia.goodman@sdrc.com
Dr. Sheryl Sorby	Mich. Tech. Univ.	Future directions	sheryl@mtu.edu

More Information

ICCON Conference Tutorials (See me for copies)
Drew Jones' Trip Report - http://oops.gsfc.nasa.gov/ideas/iccon98_trip_report.html
www.iccon.org
www.sdrc.com
www.wamware.com